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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/896,895	06/29/2001	Tao Zhang	S01.12-0787	1539
7590	12/23/2003		EXAMINER	SNIEZEK, ANDREW L
Alan G. Rego Westman, Champlin & Kelly International Centre, Suite 1600 900 Second Avenue South Minneapolis, MN 55402-3319			ART UNIT	PAPER NUMBER
2651				
DATE MAILED: 12/23/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/896,895	ZHANG ET AL.	
	<b>Examiner</b>	Art Unit Andrew L. Sniezek	2651

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) Responsive to communication(s) filed on 14 October 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) Claim(s) 1-26 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-4, 9, 11, 12, 15-20 and 25 is/are rejected.
- 7) Claim(s) 5-8, 10, 13, 14, 21-24 and 26 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \*    c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
  - a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____ .

***Drawings***

1. The proposed drawing correction filed 9/22/03 has been approved.

***Claim Rejections - 35 USC § 103***

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. Claims 1-3, 9, 11, 12, 15-19 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art (figure 2) in view of Ottesen et al. ('982). The specifics of this rejection are incorporated herein from paragraph 6 of the office action mailed 7/2/03.
4. Claims 4 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art (figure 2) in view of Ottesen et al. ('982), as applied to claims 1-3, 9, 11, 12, 15-19 and 25 above, and further in view of Sidman et al.

The specifics of this rejection are incorporated herein from paragraph 7 of the office action mailed 7/2/03.

***Allowable Subject Matter***

5. Claims 5-8, 10, 13-14, 21-24 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

6. Applicant's arguments filed 10/14/03 have been fully considered but they are not persuasive. Applicant argues concerning independent claims 1 and 11 that the invention operates in "real time" contrary to the operation of Ottesen. Examiner does not agree

with this statement since in both applicants invention and that taught by Ottesen, the circuits adaptively adjust parameters at the present time instead of during a manufacturing stage (background of the invention). Furthermore, "real time" is defined as "the actual time in which a physical process under computer study or control occurs" Webster's II New Riverside University Dictionary, The Riverside Publishing Company, copyright @ 1984. Clearly, the arrangement of Ottesen et al. satisfies this definition since adjustments are made during actual time not some fictitious time. Concerning applicants arguments concerning claim 16, the means claimed corresponds to element 302 of figure 3. The corresponding disclosure defines element (302) as a circuit that detects amplitude vibrations and adjusts parameters of another circuit (page 6). This is exactly the same as taught by Ottesen et al. (column 1, line 63-67 and as shown in figure 5, operation of elements 120, 122, 128 and 112).

### ***Conclusion***

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

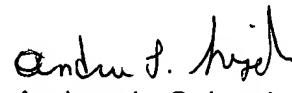
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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Sniezek whose telephone number is 703-308-1602. The examiner can normally be reached on Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 703-305-4700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

  
Andrew L. Sniezek  
Primary Examiner  
Art Unit 2651

A.L.S.  
12/22/03